The clbthesis, clmthesis, clpthesis, clseminar, and cltreport Classes*

Christian Sternagel

November 11, 2014

Contents

Intr	roduction	2
Usa	${f ge}$	2
2.1	Prelude	2
2.2	Lemmas, Theorems, and Friends	2
2.3		2
2.4		3
2.5	Examples	3
Inst	allation	3
Imp	plementation	4
4.1	Provided Class files	4
4.2	Conditionals	4
4.3	Base Class	4
4.4		
4.5	•	5
4.6		5
4.7	-	5
		6
		7
	~ - v	7
	· ·	9
		10
		15
4.8	The End	16
	Usa 2.1 2.2 2.3 2.4 2.5 Inst Imp 4.1 4.2 4.3 4.4 4.5 4.6 4.7	2.2 Lemmas, Theorems, and Friends 2.3 Bibliography 2.4 How to Generate a PDF? 2.5 Examples Installation Implementation 4.1 Provided Class files 4.2 Conditionals 4.3 Base Class 4.4 Dependencies 4.5 Available Class Options 4.6 Prepare Begin of Document 4.7 Macro Definitions 4.7.1 Theorem Environments 4.7.2 Bibliography 4.7.3 Miscellany 4.7.4 Document Structure 4.7.5 Titlepage 4.7.6 Table of Contents

^{*}This file has version number? dated?.

1 Introduction

The file CLaTex.dtx contains everything that is needed in order to generate class files for bachelor theses, master theses, seminar reports, technical reports, and also documentation on their usage. There are three main parts. In Section 2 the usage of the provided class files is described. This is the interesting part for students that want/have to write their documents using the cl* classes. In Section 3 it is described how to install the provided classes. This can be done either globally (in the \$TEXMF/tex/latex/ directory; usually /usr/share/texmf/tex/latex/) or locally (by creating the directories \$HOME/texmf/tex/latex/ if not already present) and could therefore be interesting for both students and Texnicians. In Section 4 the implementation is documented in order to enable extensions, bug fixes, etc. by other Texnicians.

2 Usage

For all classes use $\documentclass[\langle language \rangle] \{\langle class \rangle\}$ where the optional $\langle language \rangle$ is either english or german (english is the default value if the optional argument is omitted) and $\langle class \rangle$ is one of clbthesis, clmthesis, and clseminar.

2.1 Prelude

Several macros are provided that should be used before issuing \maketitle in your document. The usual \author, \date, and \title, as well as the newly defined macros \institute (only for master theses; to specify the institute where your supervisor belongs), \mailaddress (optional), \matriculationnumber (optional), \abstract, and \supervisor (\supervisors). Examples of their usage can be found in the respective files clb-template.tex, clm-template.tex, and cls-template.tex.

2.2 Lemmas, Theorems, and Friends

Several theorem environments are predefined for instant use. This is done via $\langle name \rangle$ and $\langle name \rangle$ where $\langle name \rangle$ is one of: corollary, definition, example, exercise, lemma, proof, proposition, and theorem.

2.3 Bibliography

Concerning the 'bibliography' (clbthesis and clmthesis) and the 'references' (clseminar), the default setting is to use the file biblio.bib (in the current directory) for BibT_EX-citations (that are issued with the \cite command). This default setting can be changed via the command \bibfile{ $\langle path \rangle}$ } where $\langle path \rangle$ is the (relative or absolute) path to a *.bib file (without the .bib extension).

2.4 How to Generate a PDF?

That's easy. Just type pdflatex $\langle file \rangle$.tex bibtex $\langle file \rangle$ pdflatex $\langle file \rangle$.tex pdflatex $\langle file \rangle$.tex

at the command line, where $\langle file \rangle$ is the name (without the .tex extension) of your main file.

2.5 Examples

For bachelor theses, master theses, PhD theses, seminar reports, and technical reports, use the appropriate cl* document classes. The files cl*-template.tex are examples of how one could use those classes. The main setup is done in the cl*-template.tex itself. It depends on three other files:

abstract.tex Write a short summary of your thesis/report into this file. It will occur as the 'Abstract'.

content.tex Write the main content of your thesis/report into this file using
 \chapter, \section, etc. for theses and \section, \subsection, etc. for
 reports.

appendix.tex Write all chapters/sections that are useful but not part of the main content into this file.

3 Installation

In order to install the cl* classes. Run

pdflatex CLaTeX.dtx

to generate the file CLaTeX.ins (and by the way also the example files). Then run

latex CLaTeX.ins

to generate the class files. Those have to be copied to either some directory (e.g. create a directory cl/) in \$TEXMF/tex/latex/ or (for local installation) \$HOME/texmf/tex/latex/. After doing so run

texhash

to make the T_EX environment aware of the new classes.

4 Implementation

4.1 Provided Class files

There are the four options clb, clm, clp, cls, and clt for generating the class files clbthesis.cls (for bachelor theses), clmthesis.cls (for master theses), clpthesis.cls (for PhD theses), clseminar.cls (for seminar reports), and cltreport.cls (for technical reports), respectively.

- 1 \NeedsTeXFormat{LaTeX2e}
- 2 \(\clip \\ \text{ProvidesClass{clbthesis}} \) [2007/06/25 CL bachelor theses document class]
- 3 \(\rangle \text{Clm}\\rangle \text{ProvidesClass} \(\text{clmthesis} \) \(\text{[2007/06/25 CL master theses document class} \)
- 4 \(\clip \)\ProvidesClass\(\clip \) thesis\(\left\) [2009/04/14 CL PhD theses document class\(\left\)
- 5 (cls)\ProvidesClass{clseminar}[2007/06/25 CL seminar report document class]
- 6 (clt)\ProvidesClass{cltreport}[2007/08/14 CL technical report document class]
- 7 (howto)\ProvidesClass{howto}[2010/01/15 Howto write for CL]

4.2 Conditionals

\@mainmattertrue \@mainmatterfalse The conditionals \@mainmattertrue and \@mainmatterfalse are used to check whether some code is in the main part (after frontmatter and before backmatter) of a document.

8 \newif\if@mainmatter\@mainmattertrue

The default value is \@mainmattertrue

4.3 Base Class

The generated classes are based on KOMA-Script's scrreprt, scrartcl and scrbook classes.

- 9 (clb | clm)\LoadClass[a4paper,11pt,abstract=true,twoside]{scrreprt}
- $10 \ \langle \mathsf{clp} \rangle \\ \texttt{LoadClass[a4paper,11pt,abstract=true,chapterprefix,twoside]} \\ \{ \mathsf{scrbook} \} \\$
- 11 (cls | clt | howto)\LoadClass[a4paper,11pt,abstract=true,twoside] {scrartcl}

The default options use DIN A4 paper, 11pt font size, the title 'Abstract' for the abstract, and double page printout.

4.4 Dependencies

There are several packages on which the generated classes depend:

- 12 \RequirePackage{fancyhdr}
- 13 \RequirePackage[english,ngerman]{babel}
- 14 \RequirePackage{a4}
- 15 \RequirePackage{graphicx}
- 16 \RequirePackage{amsmath}
- 17 \RequirePackage{amssymb}
- 18 \RequirePackage{amsthm}
- 19 \RequirePackage[%
- 20 bookmarks,%
- 21 plainpages=false,%

```
22 pdfpagelabels,%
23 colorlinks=false,%
24 pdfborder={0 0 0},%
25]{hyperref}
```

4.5 Available Class Options

The available options are:

Option	Description	Default
english	use english names	true
german	use german names	false

```
26 \DeclareOption{english}{\AtBeginDocument{\selectlanguage{english}}}
27 \DeclareOption{german}{\AtBeginDocument{\selectlanguage{ngerman}}}
28 \ExecuteOptions{english}
29 \ProcessOptions\relax
```

4.6 Prepare Begin of Document

\abstractname \ackname

Every document starts with its frontmatter (roman page numbering is used). Additionally an english as well as a german version of \abstractname and \ackname is declared.

```
30 \AtBeginDocument{%
31 \newcommand{\degree}[1]{\renewcommand{\degreename}{#1}}
   \global\newbox\absbox%
   \renewcommand\abstractname{%
34
    \iflanguage{english}{Abstract}{Zusammenfassung (Englisch)}%
35 }
   \newcommand\examplename{%
36
   \iflanguage{english}{Example}{Beispiel}%
37
38 }
   \newcommand\exercisename{%
39
40
     \iflanguage{english}{Exercise}{Aufgabe}%
41 }
   \newcommand\ackname{%
   \iflanguage{english}{Acknowledgments}{Danksagung}%
43
44 }
45 \definetoday
46 }
```

4.7 Macro Definitions

today In the following the macros provided by this file are described. The \today macro is changed according to a standard date format.

```
47 \newcommand\definetoday{%
48 \renewcommand*\today{%
49 \iflanguage{english}{%
```

```
\number\day\space \ifcase\month\or%
50
       January\or%
51
      February\or%
52
      March\or%
53
      April\or%
54
55
      May\or%
56
       June\or%
       July\or%
57
       August\or%
58
      September\or%
59
      October\or%
60
      November\or%
61
62
      December\or%
     \fi\space \number\year
63
64
      \number\day.~\ifcase\month\or%
65
       J\"anner\or\%
66
      Februar\or%
67
68
      M\"arz\or%
69
      April\or%
      Mai\or%
70
       Juni\or%
71
       Juli\or%
72
      August\or%
73
      September\or%
74
75
      Oktober\or%
76
      November\or%
      Dezember%
77
     \fi\space \number\year
78
    }%
79
80 }
81 }
```

Before the appendix starts, the backmatter is included. In the ToC an entry for the bibliography is created (here \phantomsection is used for compatibility reasons with hyperref).

```
82 \let\@OLDappendix\appendix

83 \renewcommand\appendix{%

84 \langle clb | clm | cls | clt | howto \\ backmatter

85 \langle clb | clm | clp \\ phantomsection{\addcontentsline{toc}{chapter}{\bibname}}

86 \langle cls | clt | howto \\ phantomsection{\addcontentsline{toc}{section}{\bibname}}

87 \\ bibliographystyle{abbrv}

88 \\ bibliography{\@bibfile}

89 \\ @OLDappendix

90 }
```

4.7.1 Theorem Environments

Some standard environments are set up for use.

```
definition
example
exercise
lemma
proposition
theorem
```

corollary

```
91 \theoremstyle{plain}
              92 \newtheorem{corollary}{Corollary}[%
              93 \langle clb \mid clm \mid clp \rangle chapter%
              94 (cls | clt | howto)section%
              95]
              96 \newtheorem{lemma}[corollary]{Lemma}
              97 \newtheorem{proposition} [corollary] {Proposition}
              98 \newtheorem{theorem}[corollary]{Theorem}
              100 \theoremstyle{definition}
              101 \newtheorem{definition}[corollary]{Definition}
              102 \newtheorem{example}[corollary]{\examplename}
              103 \newtheorem{exercise}[corollary]{\exercisename}
              4.7.2 Bibliography
              The file \@bibfile (without extension .bib) is searched for bibliography entries.
   \@bibfile
              The default setting is biblio (hence biblio.bib in the current directory is used).
              104 \newcommand\@bibfile{biblio}
    \bibfile
              The bibfile name can be set with \bibfile.
              105 \newcommand\bibfile[1]{\renewcommand\@bibfile{#1}}
              4.7.3
                     Miscellany
 \plaintitle For clmthesis and clpthesis the commands \plaintitle and \plainauthor
\plainauthor have to be used in order to set the contents of the first page correctly. Since
              \title and \author may contain \footnotes and \thankss, those can not be
              used here.
              106 (*clm | clp)
              107 \newcommand*\@supervisor{insert the name of your supervisor}
              108 \global\let\@supervisors\@empty
              109 \newcommand*\@institute{insert the institute of your supervisor}
             110 \newcommand*\institute[1]{\gdef\@institute{#1}}
              111 (/clm | clp)
              112 \newcommand*\@mailaddress\@empty
             113 \global\let\@matriculationnumber\@empty
             114 \newcommand*\mailaddress[1]{\gdef\@mailaddress{#1}}
             115 \newcommand*\matriculationnumber[1] {\gdef\@matriculationnumber{#1}}
             116 \newcommand*\@plaintitle\@empty
             117 \newcommand*\@plainauthor\@empty
             118 \newcommand*\plaintitle[1]{\gdef\@plaintitle{#1}}
             119 \newcommand*\plainauthor[1]{\gdef\@plainauthor{#1}}
   \kindname
                  The kind of document for bachelor, master, and doctoral theses, as well as
              seminar reports is defined in English and German.
             120 (*clb)
             121 \newcommand\kindname{%
             122 \iflanguage{english}{Bachelor~Thesis}{Bachelorarbeit}%
```

```
123 }
                  124 (/clb)
                  125 \langle *clm \rangle
                  126 \newcommand\kindname{%
                  127 \iflanguage{english}{Master~Thesis}{Masterarbeit}%
                  128 }
                  129 (/clm)
                  130 (*clp)
                  131 \newcommand\kindname{%
                  132 \iflanguage{english}{dissertation}{Doktorarbeit}%
                  133 }
                  134 (/clp)
                  135 (*cls)
                  136 \newcommand\kindname{%
                  137 \iflanguage{english}{Seminar~Report}{Seminararbeit}%
                  138 }
                  139 (/cls)
                  140 (*howto)
                  141 \newcommand\kindname{%
                  142 \iflanguage{english}{}{}%
                  144 \@ifundefined{BibTeX}
                       {\def\BibTeX{{\rmfamily B\kern-.05em%
                  145
                          \textsc{i\kern-.025em b}\kern-.08em%
                  146
                             T\ker -.1667em\setminus ex\cdot E}\ker -.125emX}}{
                  147
                  148 (/howto)
                  149 (*clt)
                  150 \newcommand\kindname{%
                  151 \iflanguage{english}{Technical~Report}{Technischer~Bericht}%
                  152 }
                  153 (/clt)
 \supervisorname
                  The word 'supervisor' in English and German.
                  154 \newcommand\supervisorname{%
                  155 \iflanguage{english}{Supervisor}{Betreuer}%
                  156 }
                      The word 'supervisors' in English and German.
\supervisorsname
                  157 \newcommand\supervisorsname{%
                      \iflanguage{english}{Supervisors}{Betreuer}%
                  159 }
     \degreename
                      The degree printed at the first page of a master thesis is specified by
                   \degreename which has as default value 'Master of Science'.
                  160 \newcommand\degreename{Master of Science}
        \subject
                       \subject and \publishers are commands from the KOMA-Script packages.
     \verb|\publishers|| 161 \subject{\kindname}|
                  162 \newcommand{\supervisor}[1]{%
                  163 \def\@supervisor{#1}
                  164 \publishers{\textbf{\supervisorname:} #1}
```

```
165 }
166 \newcommand{\supervisors}[1]{%
    \def\@supervisors{#1}
    \publishers{\textbf{\supervisorsname:}
168
169
     {
170
       \left( \frac{\n}{\n}\right)
171
      \begin{tabular}[t]{1}
172
      \end{tabular}
173
    }
174
175 }
176 }
```

4.7.4 Document Structure

\abstract \acknowledgments

The abstract is a short summary of the contents of the document, whereas in the acknoledgment, thanks goes to people that have been especially helpfull in writing the document.

```
177 (*clb | clm | cls | clt | howto)
              178 \renewcommand\abstract[1]{%
              179 \global\setbox\absbox=\hbox{#1}%
              180 }
              181 (/clb | clm | cls | clt | howto)
              182 (*clp)
              183 \newcommand\abstract[1]{%
              184 \global\setbox\absbox=\hbox{#1}%
              185 }
              186 (/clp)
              187 \global\let\@acknowledgments\@empty
              188 \newcommand\acknowledgments[1]{\def\@acknowledgments{#1}}
              A document is separated into frontmatter, mainmatter, and backmatter.
\frontmatter
 \mainmatter _{189} \*clb | clm\>
 \backmatter 190 \newcommand*\frontmatter{%
              191 \if@twoside\cleardoublepage\else\clearpage\fi
              192
                    \Cmainmatterfalse\pagenumbering{roman}%
              193 }
              194 \newcommand*\mainmatter{%
              195 \if@twoside\cleardoublepage\else\clearpage\fi
                   \@mainmattertrue\pagenumbering{arabic}%
              196
              197 }
              198 (/clb | clm)
              199 (*cls | howto)
              200 \newcommand*\frontmatter{%
                  \clearpage
                    \Cmainmatterfalse\pagenumbering{roman}%
              202
              203 }
              204 \newcommand*\mainmatter{%
              205 \clearpage
                   \@mainmattertrue\pagenumbering{arabic}%
```

```
207 }  
208 \langle \text{cls} | \text{howto} \rangle  
209 \langle \text{clb} | \text{clm} | \text{cls} | \text{clt} | \text{howto} \rangle  
209 \langle \text{clb} | \text{clm} | \text{cls} | \text{clt} | \text{howto} \rangle  
210 \langle \text{clp} \rangle  
211 \langle \text{clb} | \text{clm} | \text{clp} \rangle  
122 \langle \text{cls} | \text{clt} \rangle  
213 \langle \text{cmainmatterfalse} \rangle  
214 }
```

4.7.5 Titlepage

\maketitle Part of the titlepage are the logos of the University of Innsbruck and of the computational logic group.

```
215 \renewcommand*\maketitle[1][-1]{{\%}
216 (*clm)
217 \setcounter{page}{#1}
218 \pagestyle{empty}
219 \begin{center}
220 {\huge\textbf{\@plaintitle}}
221 \vskip3em
222 {\Large\textbf{%
     \iflanguage{english}{%
224
      master thesis in computer science
225
    }{%
      Masterarbeit in der Studienrichtung Informatik
226
    }
227
228 }}
229 \vskip3em
230 {\Large \iflanguage{english}{by}{von}}
231 \vskip3em
232 {\LARGE\textbf{\@plainauthor}}\par
233 \vskip3em
234 {\Large\vbox{%
     \iflanguage{english}{
235
236
      submitted to the Faculty of Mathematics, Computer \\
237
      Science and Physics of the University of Innsbruck
238
      \vskip2em
      in partial fulfillment of the requirements \\
239
      for the degree of \degreename
240
241
      eingereicht an der \\
242
      Fakult\"at f\"ur Mathematik, Informatik und Physik \\
243
      der Universit\"at Innsbruck
244
      \vskip2em
245
      zur Erlangung des akademischen Grades \\
246
      \degreename
247
    }
248
249 }}\par
250 \vfill
```

```
251 {\Large
252
     \vbox{
     \ifx\@supervisors\@empty
253
     \iflanguage{english}{%
254
      \expandafter\lowercase\expandafter{\supervisorname}%
255
256
     }{\supervisorname}%
257
     : \@supervisor, \mbox{\@institute}
258
    \else
     \iflanguage{english}{%
259
      \expandafter\lowercase\expandafter{\supervisorsname}%
260
     }{\supervisorsname}%
261
^{262}
263
     {
      \left( \right) 
264
       \@supervisors
265
266
      \mbox{\@institute}
267
     }
268
269 \fi
270 }}\par
271 \vfill
272 {\Large\textbf{Innsbruck, \@date}}
273 \end{center}
274 \langle /clm \rangle
275 (*clp)
    \renewcommand\supervisorsname{advisors}
    \renewcommand\supervisorname{advisor}
277
    \setcounter{page}{#1}
278
    \pagestyle{empty}
279
280 \begin{center}
281 {\huge\textbf(\plaintitle)}
282 \vskip3em
283 {\Large\textbf{%
     \iflanguage{english}{%
284
285
      dissertation
286
     }{%
      Doktorarbeit in der Studienrichtung Informatik
287
     }
288
289 }}
290
    \vskip3em
291 {\Large \iflanguage{english}{by}{von}}
292 \ \vskip3em
293 {\LARGE\textbf{\Qplainauthor}}\
294 \vskip3em
295 {\Large\vbox{%
296
     \iflanguage{english}{
297
      submitted to the Faculty of Mathematics, Computer \\
      Science and Physics of the University of Innsbruck
298
299
      \vskip2em
      in partial fulfillment of the requirements \\
300
```

```
for the degree of \degreename
301
302
     }{
      eingereicht an der \\
303
      Fakult\"at f\"ur Mathematik, Informatik und Physik \\
304
      der Universit\"at Innsbruck
305
306
      \vskip2em
307
      zur Erlangung des akademischen Grades \\
308
      \degreename
     }
309
310 }}\par
   \vfill
311
312 {\Large
313
     \vbox{
     \ifx\@supervisors\@empty
314
     \iflanguage{english}{%
315
      \expandafter\lowercase\expandafter{\supervisorname}%
316
     }{\supervisorname}%
317
     : \@supervisor
318
319
    \else
320
     \iflanguage{english}{%
      \expandafter\lowercase\expandafter{\supervisorsname}%
321
     }{\supervisorsname}%
322
323
     {
324
      \def\and{,}
325
326
       \@supervisors
327
     }
328 \fi
329 }}\par
330 \vfill
331 {\Large\textbf{Innsbruck, \@date}}
332 \end{center}
333 (/clp)
334 \frontmatter
335 \thispagestyle{empty}
336 \let\footnotesize\small
337 \let\footnoterule\relax
338 \let\footnote\thanks
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
340 \let\@oldmakefnmark\@makefnmark
341 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
342 \newbox\cllbox
343 \newbox\ifibox
344 \newbox\unibox
345 \newdimen\logoheight
346 \setbox\cllbox=\hbox{\includegraphics[scale=0.36]{clshortlogo_new.pdf}}
347 \setbox\ifibox=\hbox{\includegraphics[scale=0.38]{ifilogo.pdf}}
348 \setbox\unibox=\hbox{\includegraphics[scale=0.2]{unilogo.png}}
349 \logoheight=\ht\cllbox
350 \begin{center}
```

```
\hbox to \textwidth{%
352
     \rlap{\box\cllbox}
     \hfill
353
     \hbox{\vbox to \logoheight{\box\ifibox \vfill}}
354
     \hfill
355
356
     \llap{\box\unibox}
357 }
    \ifx\@subject\@empty \else
358
     {\bigskip\Large \@subject \par}
359
    \vskip 3em
360
361 \fi
    {\titlefont\huge \@title\par}
362
363 \vskip 3em
364 {\Large \lineskip 0.75em
365 \begin{tabular}[t]{c}
    \@author{}
366
    \ifx\@matriculationnumber\@empty{}\else(\@matriculationnumber)\fi \\
367
    \href{mailto:\@mailaddress}{\texttt{\@mailaddress}}
368
369 \end{tabular}\par}
370 \vskip 1.5em
371 {\Large \@date \par}
372 \vskip \z@ \@plus3fill
373 {\Large \@publishers \par}
374 \vskip 3em
375 (*cls | clt | howto)
376 \null\vfill
377 \@beginparpenalty\@lowpenalty
378 \normalfont\sectfont\nobreak\abstractname
379 \@endparpenalty\@M
380 (/cls | clt | howto)
381 \end{center}\par
382 \@thanks
383 \global\let\@thanks\@empty
384 \vfill\null
385 (*cls | clt | howto)
386 \unhbox\absbox
387 \par%\vfil\null
388 (/cls | clt | howto)
389 \vskip 3em
390 \@thanks
391 %\vfill\null
392 \setcounter{footnote}{0}%
393 \global\let\thanks\relax
394 \global\let\maketitle\relax
395 \global\let\@thanks\@empty
396 \global\let\@author\@empty
397 \global\let\@date\@empty
398 \global\let\@title\@empty
399 \global\let\@extratitle\@empty
400 \global\let\@titlehead\@empty
```

```
401 \global\let\@subject\@empty
402 \global\let\@publishers\@empty
403 \global\let\@uppertitleback\@empty
404 \global\let\@lowertitleback\@empty
405 \global\let\@dedication\@empty
406 \global\let\author\relax
407 \global\let\title\relax
408 \global\let\extratitle\relax
409 \global\let\titlehead\relax
410 \global\let\subject\relax
411 \global\let\publishers\relax
412 \global\let\uppertitleback\relax
413 \global\let\lowertitleback\relax
414 \global\let\dedication\relax
415 \global\let\date\relax
416 \global\let\and\relax
417 \clearpage
418 (*clb | clm | clp)
419 \cleardoublepage
420 \chapter*{Eidesstattliche Erkl{\"a}rung}
421 \thispagestyle{empty}
422
423 Ich erkl{\"a}re hiermit an Eides statt durch meine eigenh{\"a}ndige Unterschrift,
424 dass ich die vorliegende Arbeit selbst{\"a}ndig verfasst und keine anderen
425 als die ange\-gebenen Quellen und Hilfsmittel verwendet habe. Alle Stellen,
426 die w{\"o}rtlich oder inhaltlich den angegebenen Quellen entnommen wurden,
427 sind als solche kenntlich gemacht.
429 \noindent
430 (*clb)
431 Ich erkl{\"a}re mich mit der Archivierung der vorliegenden
432 \foreignlanguage{german}{\kindname}
433 einverstanden.
434 (/clb)
435 (*clm | clp)
436 Die vorliegende Arbeit wurde bisher in gleicher oder {\"a}hnlicher Form noch
437 nicht als Magister-/Master-/Diplomarbeit/Dissertation eingereicht.
438 (/clm | clp)
439
440 \vspace{2cm}
442 \noindent\mbox{}
443 \hskip Opt plus .25fill
    \hrulefill
444
445
    \hskip Opt plus .5fill
446
    \hrulefill
    \hskip Opt plus .25fill
448 \mbox{}
449 \\
450 \neq 10
```

```
451 \hskip Opt plus .25fill 452 Datum 453 \hskip Opt plus .5fill 454 Unterschrift 455 \hskip Opt plus .25fill 456 \mbox{} 457 \cleardoublepage 458 \/clb | clm | clp \\delta 459 }}
```

4.7.6 Table of Contents

\tableofcontents Immediately after the ToC the mainmatter starts and also headings are printed.

```
460 \let\@OLDtableofcontents\tableofcontents
461 \renewcommand\tableofcontents{%
462 (*cls | clt | howto)
463 \pagestyle{plain}
464 (/cls | clt | howto)
465 (*clb | clm | clp)
466 \pagestyle{empty}
467 \cleardoublepage
468 \begin{center}
469 \normalfont\sectfont\nobreak\abstractname
470 \@endparpenalty\@M
471 \end{center}
472 \unhbox\absbox
473 \par\vfil\null
474 \ifx\@acknowledgments\@empty{}\else
      \cleardoublepage
475
      \chapter*{\ackname}
476
477
      \@acknowledgments
478
     \cleardoublepage
479 \fi
480 \langle \text{clb} \mid \text{clm} \mid \text{clp} \rangle
481 \@OLDtableofcontents
482 \langle clb \mid clm \mid clp \rangle \backslash cleardoublepage
483 (cls | clt | howto)\newpage
484 \mainmatter
485 (*clb | clm | clp | cls | clt)
486 \pagestyle{fancy}
487 \fancyhead{}
488 \fancyfoot{}
489 (/clb | clm | clp | cls | clt)
490 (*clb | clm | clp)
491 \renewcommand\chaptermark[1]{\markboth{\thechapter\ ##1}{}}
492 \renewcommand\sectionmark[1]{\markright{\thesection\ ##1}}
493 \renewcommand\headrulewidth{0.5pt}
494 (/clb | clm | clp)
495 (*cls | clt | howto)
```

```
\label{eq:continuous} $$496 \ \ensurement $$1]{\mathcal{\Omega}_{\mathbb{T}}}$$ 497 \ensurement $$1]{\mathcal{\Omega}_{\mathbb{T}}}$$ 498 \ensurement $$1]{\mathcal{\Omega}_{\mathbb{T}}}$$ 498 \ensurement $$1]{\mathcal{\Omega}_{\mathbb{T}}}$$ 499 \ensurement $$100 \ensurement $$1]{\mathcal{\Omega}_{\mathbb{T}}}$$ 499 \ensurement $$100 \ensurement $$1]{\mathcal{\Omega}_{\mathbb{T}}}$$ 490 \ensurement $$100 \ensurement $$1]{\mathcal{\Omega}_{\mathbb{T}}}$$ 490 \ensurement $$100 \ensurement $$10
```

4.8 The End

506 \endinput